

AMENDMENT(S) TO THE CLAIMS

1. (currently amended) A method of preparing fiber stock for the production of paper or board, comprising the steps of:

supplying fibers in the form of a fiber suspension that has a predetermined solids content, said predetermined solids content being in the range of approximately 25% to approximately

5 40%;

loading said fibers with a precipitation product, without mechanically treating the fiber stock to improve a freeness value of said fibers;

mechanically treating said fibers after said loading step, whereby said mechanically treating step improves said freeness value of said fibers; and

10 transporting of the fiber stock in a direction toward a paper machine.

2. (canceled)

3. (currently amended) The method of claim 1 ~~2~~, wherein said predetermined solids content is in the range of approximately 30% to approximately 40%.

4. (original) The method of claim 3, wherein said predetermined solids content is in the range of approximately 30% to approximately 35%.

5. (original) The method of claim 1, wherein said precipitation product is a filler.

6. (currently amended) ~~The~~ A method of ~~claim 1, further comprising the step of~~

preparing fiber stock for the production of paper or board, comprising the steps of:

supplying fibers in the form of a fiber suspension that has a predetermined solids content;

loading said fibers with a precipitation product, without mechanically treating the fiber

5 stock to improve a freeness value of said fibers;

mechanically treating said fibers after said loading step, whereby said mechanically

treating step improves said freeness value of said fibers;

transporting of the fiber stock in a direction toward a paper machine; and

diluting said fiber suspension prior to said ~~refining~~ mechanically treating step.

7. (original) The method of claim 6, wherein said diluting step results in a change of the solids concentration to be in a range of approximately 3% to approximately 7%, said solids concentration defined as the fiber and precipitation product mass, specific to the total volume.

8. (original) The method of claim 7, wherein said solids concentration is in the range of approximately 4% to approximately 6%.

9. (original) The method of claim 8, wherein said solids concentration is in the range of approximately 4.5% to approximately 5.5%.

10. (currently amended) ~~The A method of claim 1, wherein~~ A method of claim 1, wherein preparing fiber stock for the production of paper or board, comprising the steps of:

supplying fibers in the form of a fiber suspension that has a predetermined solids content;

loading said fibers with a precipitation product, without mechanically treating the fiber

5 stock to improve a freeness value of said fibers;

mechanically treating said fibers after said loading step, whereby said mechanically treating step improves said freeness value of said fibers;

transporting of the fiber stock in a direction toward a paper machine; and

repeating said ~~refining~~ mechanically treating step is repeated.

11. (currently amended) The method of claim 10, wherein said predetermined solids content during a first execution of said ~~refining~~ mechanically treating step is different than said predetermined solids content in a subsequent execution of said ~~refining~~ mechanically treating step.

12. (currently amended) The method of claim 10, wherein said predetermined solids content during a first execution of said ~~refining~~ mechanically treating step is the same as said predetermined solids content in a subsequent execution of said ~~refining~~ mechanically treating step.

13. (canceled)

14. (canceled)

15. (currently amended) The method of claim 1, further comprising the step of washing said precipitation product from said fiber suspension after said ~~refining~~ mechanically treating step.

16. (currently amended) ~~The A method of claim 1, wherein~~ preparing fiber stock for the production of paper or board, comprising the steps of:

supplying fibers in the form of a fiber suspension that has a predetermined solids content;

loading said fibers with a precipitation product, without mechanically treating the fiber

5 stock to improve a freeness value of said fibers;

mechanically treating said fibers after said loading step, whereby said mechanically treating step improves said freeness value of said fibers;

transporting of the fiber stock in a direction toward a paper machine; and

refining said fiber suspension is refined in at least one refiner having a refining slot, said
10 refining slot having structured surfaces, said fibers present in said refining slot being refined with
an edge load of said surface structures in a range of approximately 0.5 J/m to approximately 5.0
J/m.

17. (original) The method of claim 16, wherein said edge load of said surface structures
is in a range of approximately 0.5 J/m to approximately 2.0 J/m.

18. (original) The method of claim 17, wherein said edge load of said surface structures
is approximately 1.5 J/m.

19. (original) The method of claim 16, wherein said structured surfaces include a
plurality of intersecting angles between knife fillings, said plurality of intersecting angles being in
the range of approximately 10° to approximately 80°.

20. (original) The method of claim 19, wherein said plurality of intersecting angles are in the range of approximately 40° to approximately 60° .

21. (original) The method of claim 20, wherein said plurality of intersecting angles are approximately 40° if said fibers are short.

22. (original) The method of claim 21, wherein said plurality of intersecting angles are approximately 60° if said fibers are long.

23. canceled